

IN THE CLAIMS:

Please add claims 35-37.

35. A method for producing biocompetent fibrinogen comprising:
- providing a transgenic female non-human mammal carrying in its germline heterologous cDNA segments encoding A α , B β and γ chains of fibrinogen, wherein said segments are expressed in a mammary gland of said mammal and biocompetent fibrinogen encoded by said segments is secreted into milk of said mammal;
 - collecting milk from said mammal; and
 - recovering said biocompetent fibrinogen from said milk.
36. A transgenic non-human female mammal that produces recoverable amounts of biocompetent human fibrinogen in its milk, wherein said mammal comprises:
- a first DNA segment encoding a secretion signal operably linked to a heterologous fibrinogen A α chain, the DNA segment comprising heterologous cDNA encoding the A α chain;
 - a second DNA segment encoding a secretion signal operably linked to a heterologous fibrinogen B β chain, the DNA segment comprising heterologous cDNA encoding the B β chain; and

a third DNA segment encoding a secretion signal operably linked to a heterologous fibrinogen γ chain, the DNA segment comprising heterologous cDNA encoding the γ chain; and

further wherein each chain is derived from the same species and is operably linked to additional DNA segments required for its expression in the mammary gland of a host female mammal.

37. A set of DNA sequences comprising:

a first DNA segment encoding a secretion signal operably linked to a heterologous fibrinogen A α chain, the DNA segment comprising cDNA encoding the A α chain;

a second DNA segment encoding a secretion signal operably linked to a heterologous fibrinogen B β chain, the DNA segment comprising cDNA encoding the B β chain; and

a third DNA segment encoding a secretion signal operably linked to a heterologous fibrinogen γ chain, the DNA segment comprising cDNA encoding the γ chain, wherein each chain is from the same species, and

wherein each of said first, second and third segments is operably linked to additional DNA segments required for its expression in the mammary gland of a host female mammal.

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